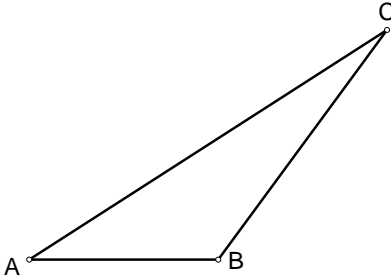
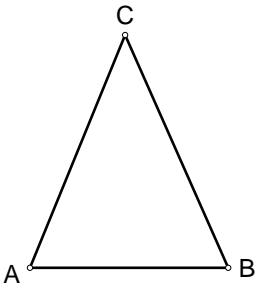


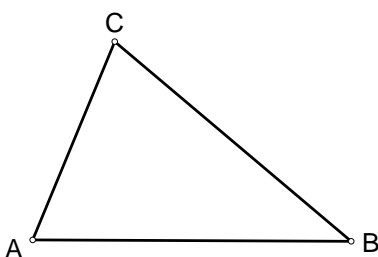
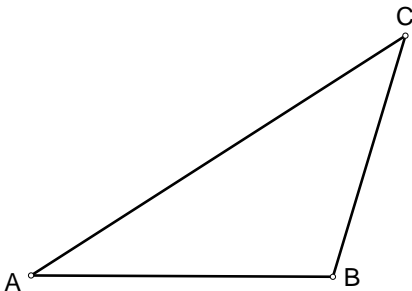
Chapter 5 Review Packet

Draw in the following for the given triangle and mark what segments/angles would be congruent or angles that would be right angles. *You may have to put in extra points (i.e. midpoints).* Targets 5A to 5E

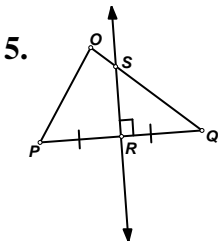
1. Median from C to AB.
2. Altitude from C to AB.

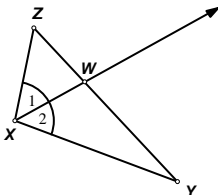


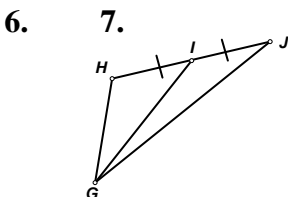
3. Angle Bisector from B to AC.
4. Perpendicular Bisector of AB.

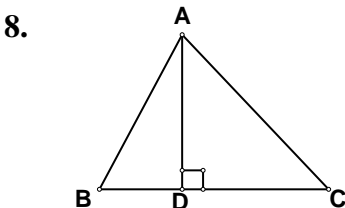


For numbers 5-8, determine whether you are given an altitude, median, angle bisector, or perpendicular bisector and then name the parts of the triangles that are either congruent or right angles. Targets 5A – 5E.



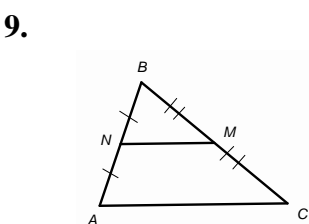






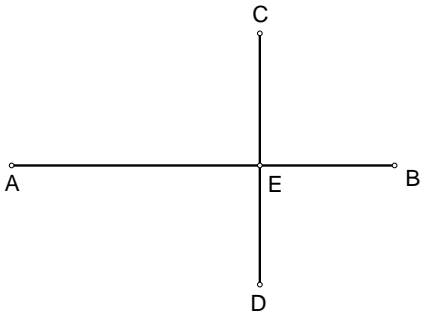
8. _____

9. _____

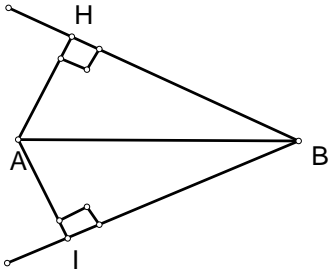


State a conclusion for the given picture.

10. \overline{AB} is the perpendicular bisector of \overline{CD} .



11. \overrightarrow{BA} is the angle bisector of $\angle HBI$

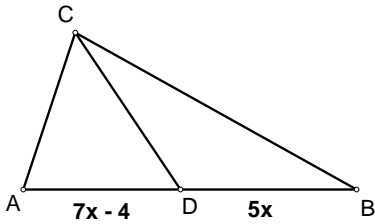


12. \overline{CD} is a median of $\triangle ACB$. Solve for x, AD, and AB.

x = _____

AD = _____

AB = _____

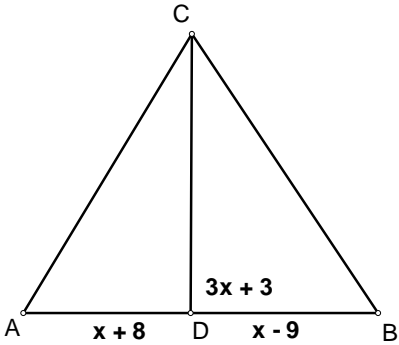


13. \overline{CD} is an altitude of $\triangle ACB$. Solve for x and give the measure of AD and DB.

x = _____

AD = _____

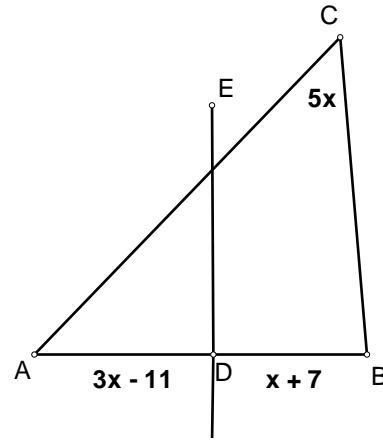
DB = _____



14. \overline{EF} is the perpendicular bisector of AD . Solve for x and the measure of $\angle C$.

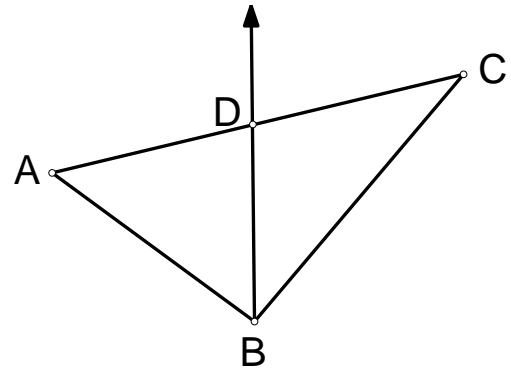
$x =$ _____

$m\angle C =$ _____



15. \overrightarrow{BD} is an angle bisector of $\angle CBA$. Solve for x if $\angle CBD = 8x$ and $\angle ABD = 4x + 30$.

$x =$ _____



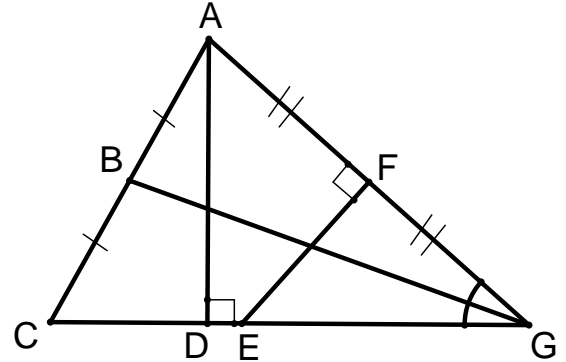
16. Using $\triangle ACG$ at the right, give an example of the following:

Median _____

Angle bisector _____

Perpendicular bisector _____

Altitude _____



17. The point where all 3 *perpendicular bisectors* meet in a triangle is called the _____.
18. The point where all 3 *angle bisectors* meet in a triangle is called the _____.
19. The point where all 3 *medians* meet in a triangle is called the _____.
20. The point where all 3 *altitudes* meet in a triangle is called the _____.

Target 5F

21. The measure of two sides of a triangle are 12, 16. What is the range of numbers that could be the measure of the third side? Express your answer as an inequality.

_____ < x < _____

Determine if the following measurements can be the sides of a triangle. If not, explain why.

22. 3 cm, 4 cm, 6 cm

Yes or No

23. 2.7 in, 7.8 in, 9.3 in

Yes or No

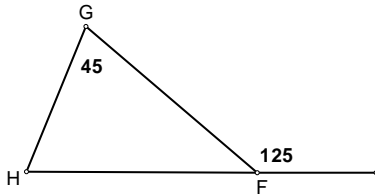
24. 14 mm, 6 mm, 8 mm

Yes or No

Target 5G

Find the angles of the triangle. List the **angles** from smallest to largest. List the **sides** from smallest to largest.

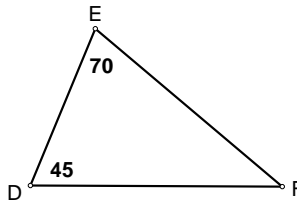
25.



Angles: _____

Sides: _____

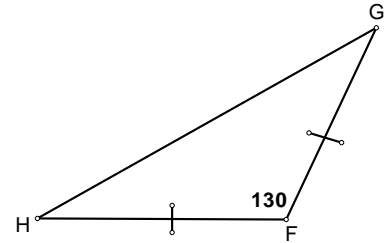
26.



Angles: _____

Sides: _____

27.

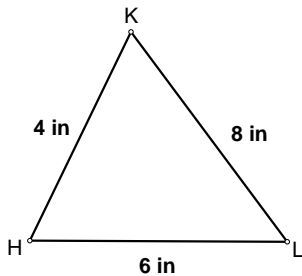


Angles: _____

Sides: _____

List the **sides** from smallest to largest. Then list the **angles** from smallest to largest.

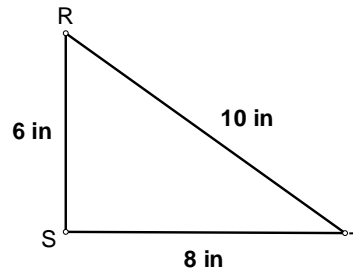
28.



Sides: _____

Angles: _____

29.



Sides: _____

Angles: _____